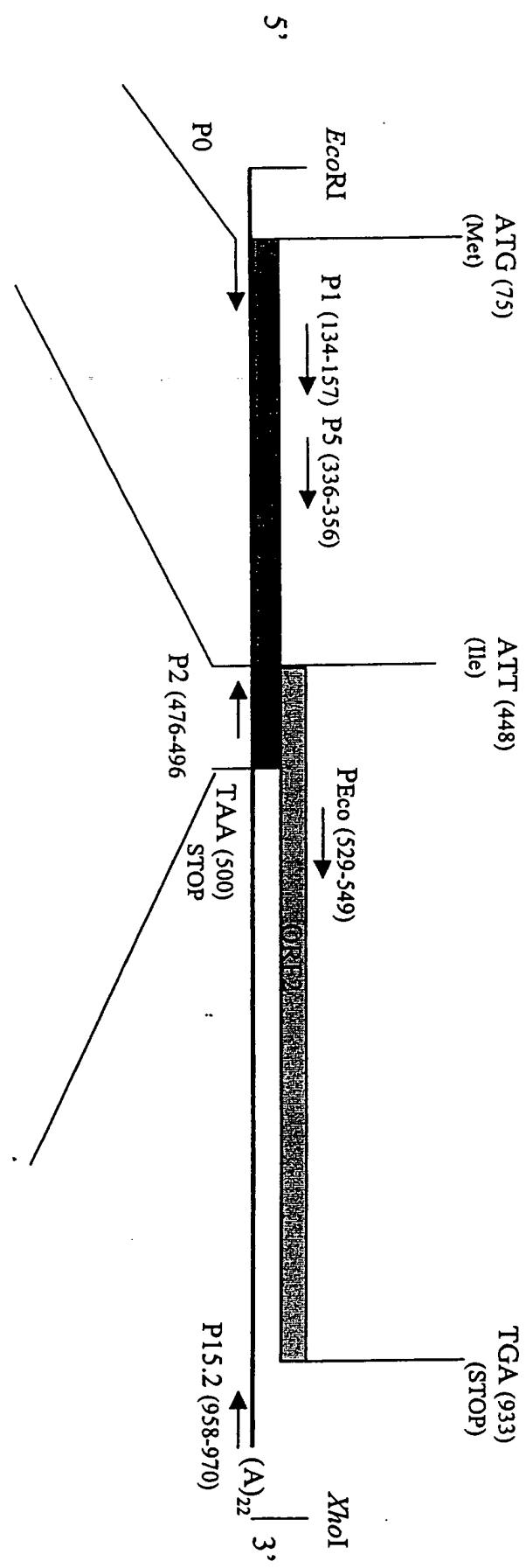


A



SEQ. ID NO. 11 ORF2 I F V T L D L L R A K E S I D S S K K A L R
5' GCAGAAATTTCGTCACCTAGATCTCTTAAGAGCCAAGGGAGTCATAAGACTCATTAAGAAGGCACTACGTA 3'

ORF1 A E Y F R H L R S L K S Q G V N R L I stop

Figure 1 (Replacement Sheet)
USSN: 10/087,573

CIPE
JUN 16 2003
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NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

SEQ. ID NO. 1

EcoRI

gaattcggcacgagccctgctatactgtgcttgcaactaactccatcgtaaaaatataataataataaaa 72

M E S T S T T N F V A E N R P T 17
gg ATG GAG TCG ACA TCA ACA ACG ACC AAC TTT GTT GCC GAG AAC CGT CCC ACC 125

F G E T F D V M R E A L L R V K S S 35
TTT GGT GAG ACG TTT GAT GTG ATG AGG GAA GCT TTG CTT CGT GTA AAG TCC TCT 179

E R L A M L R A L A G M C G H R V L 53
GAA CGC TTG GCA ATG CTC AGA GCG CTT GCA GGA ATG TGC GGT CAC CGC GTC CTT 233

P G T G A S A I A A T V T P K G A S 71
CCT GGC ACT GGT GCT TCT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

M K L K P P R P Q S T K S P E L R E 89
ATG AAG CTT AAA CCA CCG CGT CCG CAG TCA ACG AAG TCT CCG GAG CTC AGG GAG 341

L S R K I R E M N K T I S Q E S A R 107
CTG TCA CGG AAG ATT CGC GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

V N H R L P E G H P L L E K R A E Y 125
GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA TAT 449

F R H L R S L K S Q G V N R L I * 141
TTT CGT CAC CTT AGA TCT CTT AAG AGC CAA GGA GTC AAT AGA CTC ATC TAA G 501
aaggcaitacgttaggtaccgtgcctctatgaggaatacgaaccgactagtgcacaatagacgaccagtctca 573
ccaaaggtagagcctgactctaattaccattcgccagcgcacggagtcgcatacgacgtggaaatcttaga 645
ccacgcccggacgggttatccgtcaatggtaacttggcagttacggactcctgatctcgatttatagatca 717
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actaggttcagccagcgttccctgtgagtagtgcattccgggtccttcggggcccccggccagttcgactgg 1005
tgttaggttgcctactagagtagtacttgcacgcctccgtcaaaaagaaacgcgcacgcctagca 1077
gagaaatgcgagggcatgactcttcgagtaaaaaaaaaaaaaaaaactcgt 1135

XhoI

Figure 2 (Replacement Sheet)

USSN: 10/087,573

SEQ. ID NO. 3

EcoRI

gaattcggcacgagccctgtatactgtgcttgcactaactccatcgtaataattataataataaaa72

M E S T S T T T N F V A E N R P T 17
gg ATG GAG TCG ACA TCA ACA ACG ACC AAC TTT GTT GCC GAG AAC CGT CCC ACC 125

F G E T F D V M R E A L L R V K S S 35
TTT GGT GAG ACG TTT GAT GTG ATG AGG GAA GCT TTG CTT CGT GTA AAG TCC TCT 179

E R L A M L R A L A G M C G H R V L 53
GAA CGC TTG GCA ATG CTC AGA GCG CTT GCA GGA ATG TGC GGT CAC CGC GTC CTT 233

P G T G A S A I A A T V T P K G A S 71
CCT GGC ACT GGT GCT TCT GCG ATA GCG GCA ACG GTA ACC CCA AAG GGG GCT TCG 287

M K L K P P R P Q S T K S P E L R E 89
ATG AAG CTT AAA CCA CCG CGT CCG CAG TCA ACG AAG TCT CCG GAG CTC AGG GAG 341

L S R K I R E M N K T I S Q E S A R 107
CTG TCA CGG AAG ATT CGC GAA ATG AAT AAG ACT ATA AGT CAG GAA TCA GCT CGG 395

V N H R L P E G H P L L E K R A E Y 125
GTA AAC CAC CGG TTG CCG GAA GGC CAC CCT CTC TTA GAG AAG CGG GCA GAA TAT 449

F V T L D L L R A K E S I D S S K K 143
(T) TTC GTC ACC TTA GAT CTC TTA AGA GCC AAG GAG TCA ATA GAC TCA TCT AAG AAG 504

A L R R Y R A S M R N T N R L V H N 161
GCA CTA CGT AGG TAC CGT GCC TCT ATG AGG AAT ACG AAC CGA CTA GTG CAC AAT 558

R R P V L P K V E P D S N L P F G Q 179
AGA CGA CCA GTT CTA CCA AAG GTA GAG CCT GAC TCT AAT CTA CCA TTC GGC CAG 612

R R S R M T T W N L R P R R T G Y P 197
CGA CGG AGT CGC ATG ACA ACG TGG AAT CTT AGA CCA CGC CGG ACG GGT TAT CCG 666

S N G T L A V T E L L I S I Y R S N 215
TCA AAT GGT ACT TTG GCA GTT ACG GAA CTC CTG ATC TCG ATT TAT AGA TCA AAC 720

F Y T L K V V E E G R C T C C N T H 233
TTC TAC ACC TTG AAG GTG GTC GAG GAA GGG AGA TGT ACG TGC TGC AAC ACC CAT 774

K E Q A L L L S G Y L Q L Y R A L 251
AAG GAG CAA GCT TTG CTA CTC CTA TCC GGT TAC CTC CAG CTA TAT CGT GCA CTG 828

H S V G R S V F V E Y C K T R I C V 269
CAC TCA GTT GGA AGG TCT GTA TTC GTA GAA TAC TGC AAA ACC AGG ATA TGC GTC 882

E A R L T G L R P R V T L T G C * 285
GAG GCA CGC CTC ACC GGA CTA CGT CCG AGG GTG ACC CTA ACG GGC TGC TGA A 934
ctagttcagccagcgcttcgtgagtatgtcattccggccttcggggccggccgcaatttcgactgg 1006
gtaggttgcctactagacttgcgacgcccgaagcgccctccgttcaaaagaacgcgcgaagccctagcag 1078
agaaatgcgagggcatgactttcgagtcaaaaaaaaaaaaaactcgag 1135
XhoI

Figure 3 (Replacement Sheet)

USSN: 10/087,573